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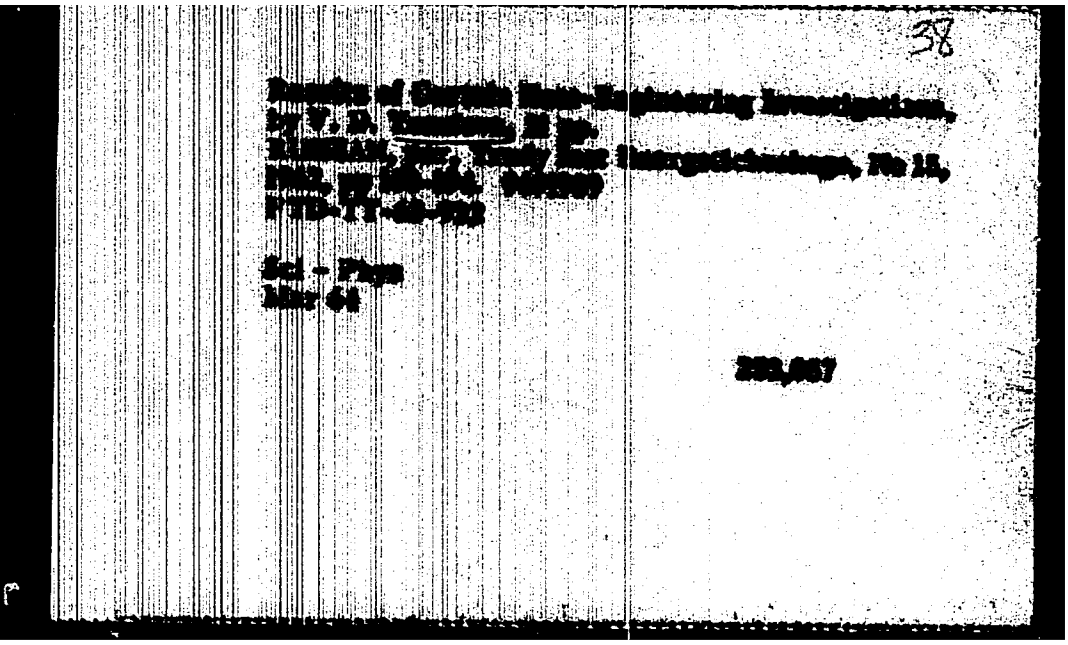

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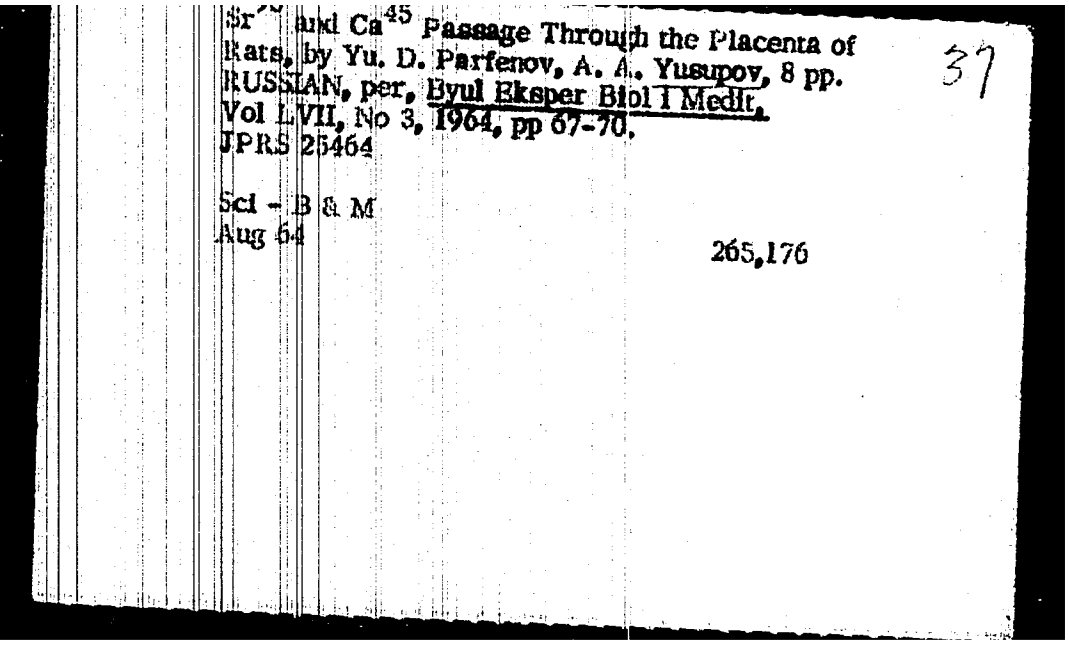

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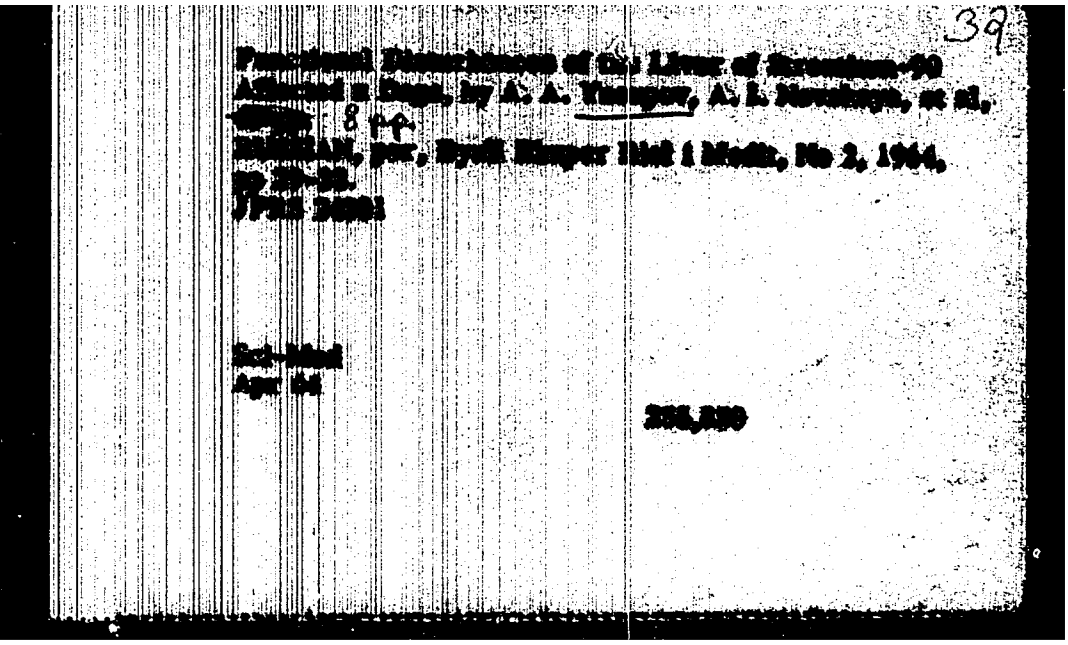

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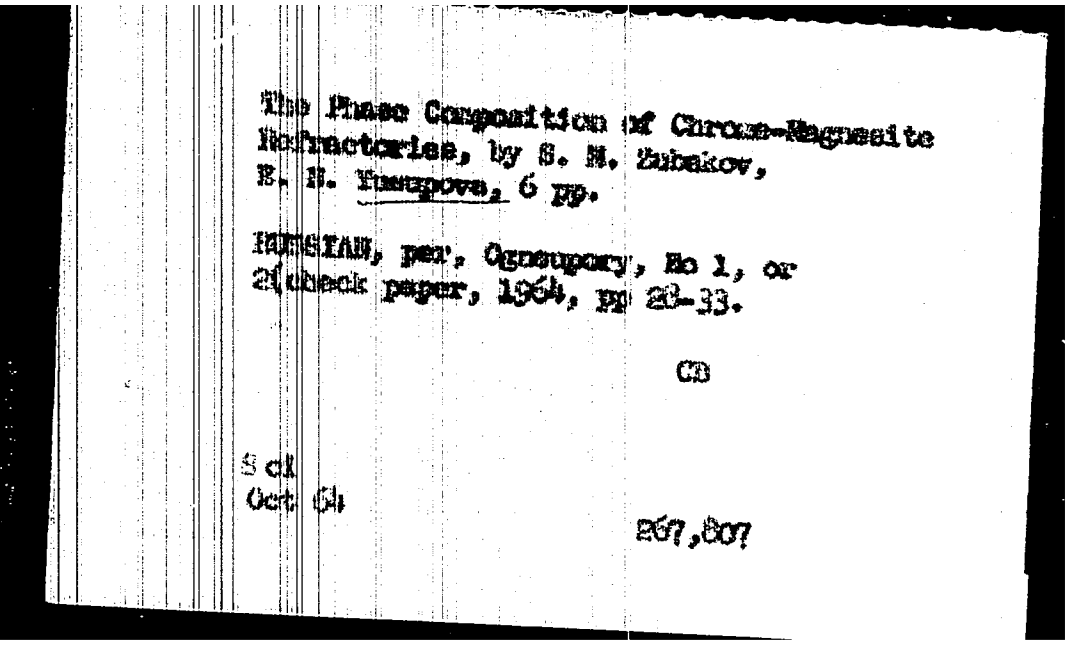

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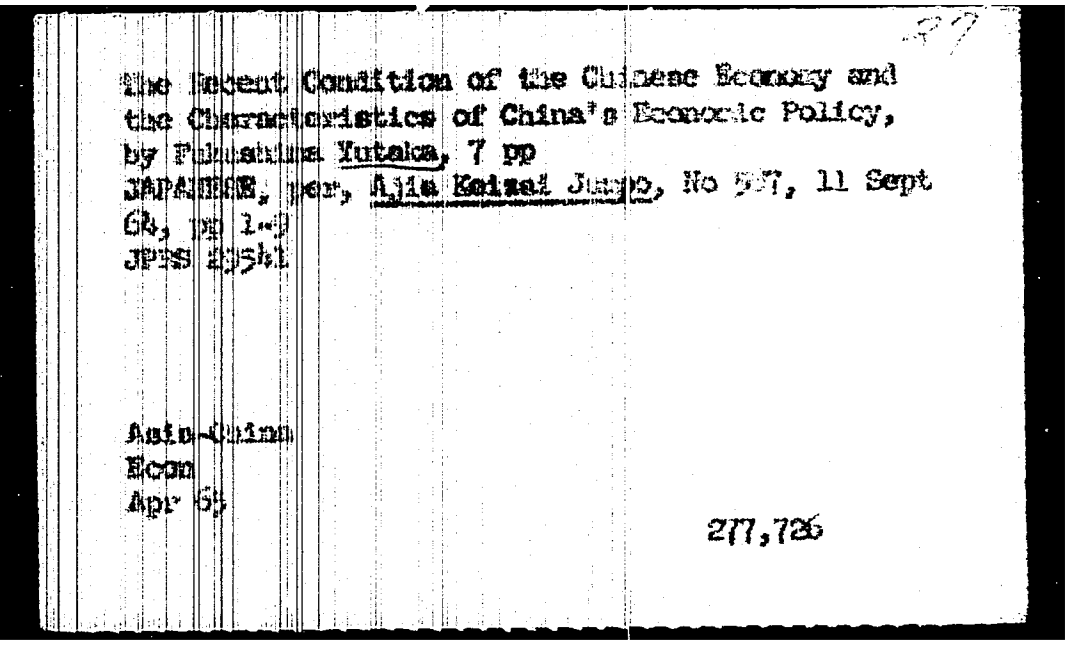

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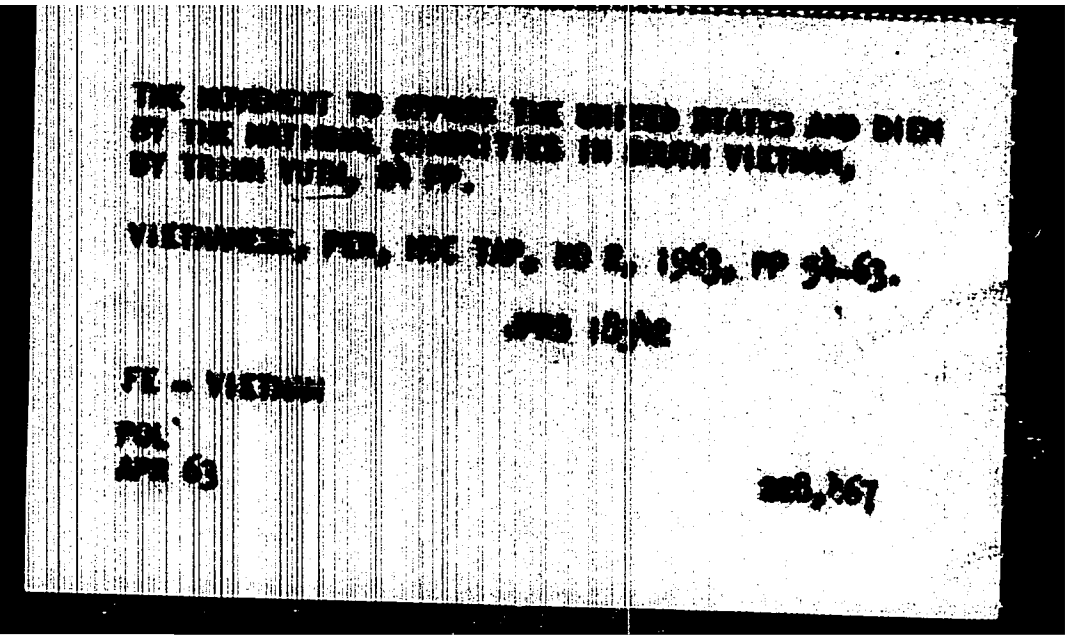

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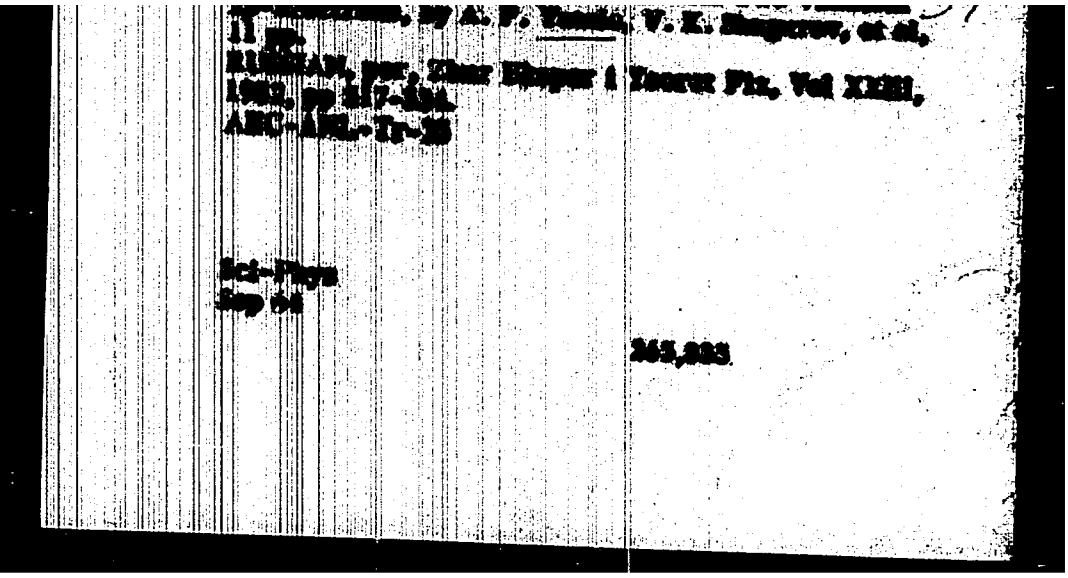

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DESCRIPTORS: *Carbon, Atomic structure, Atomic orbitals, *Atomic energy levels, Electrons, *Field theory, Special functions, Quantum statistics, Matrix calculus.

The interaction of the $1s^2 2s^2 2p^2$, $1s^2 2p^4$, $1s^2 2s^2 2p 3p$, and $1s^2 2s 2p^2 3s$ configurations of the carbon atom is theoretically investigated. Over-all wave functions are derived for these configurations. The energy
(Physics--Theoretical, TT, v. 10, no. 9) (over)

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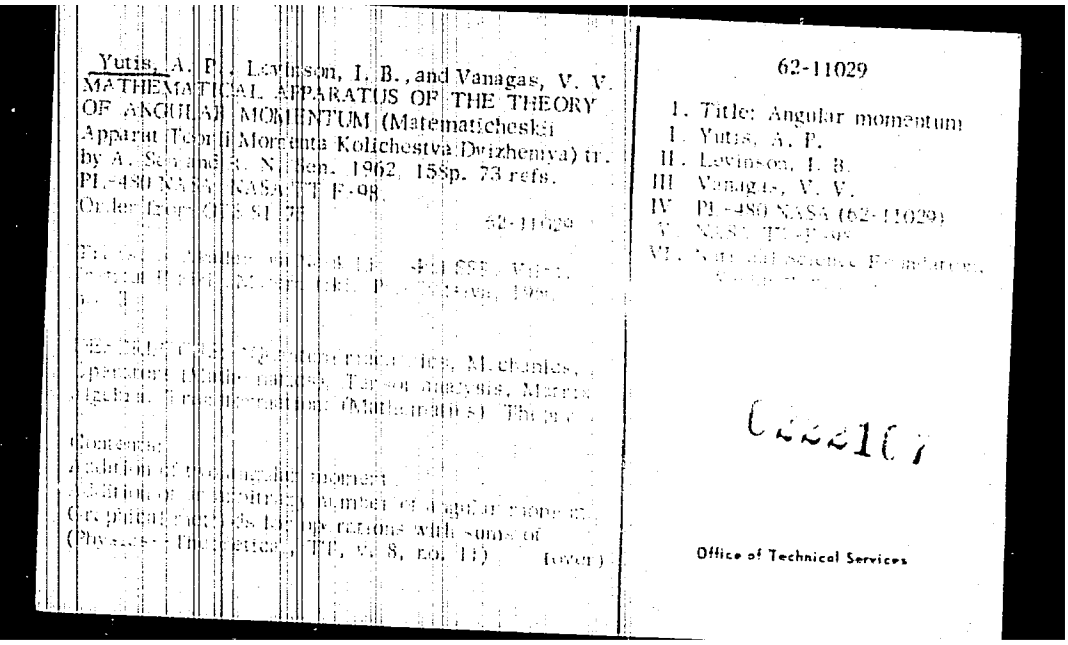

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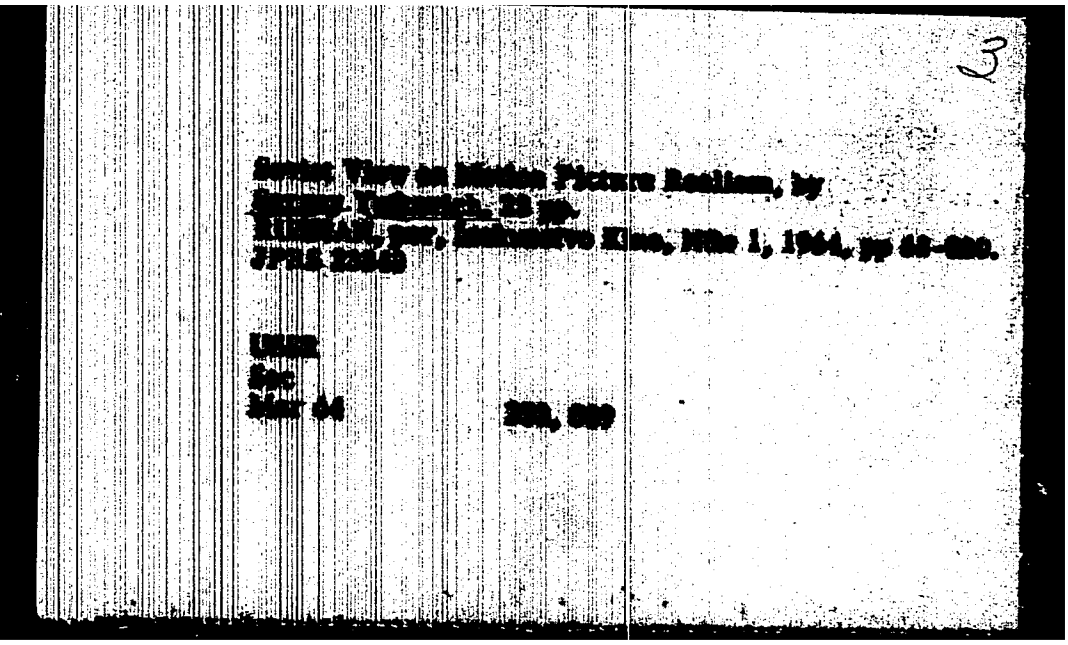

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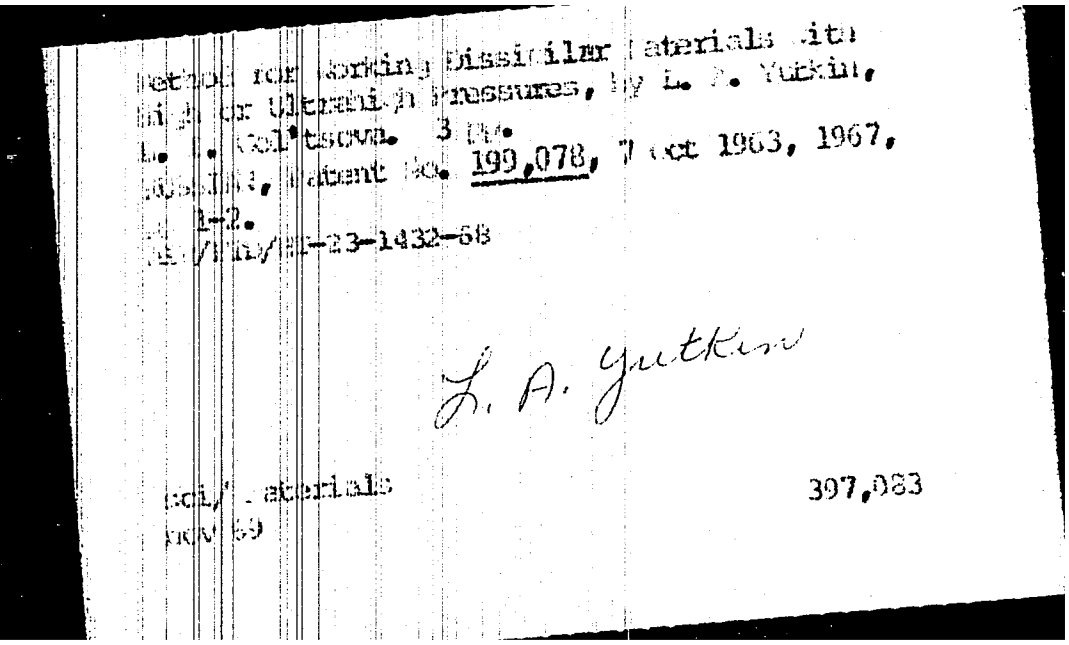

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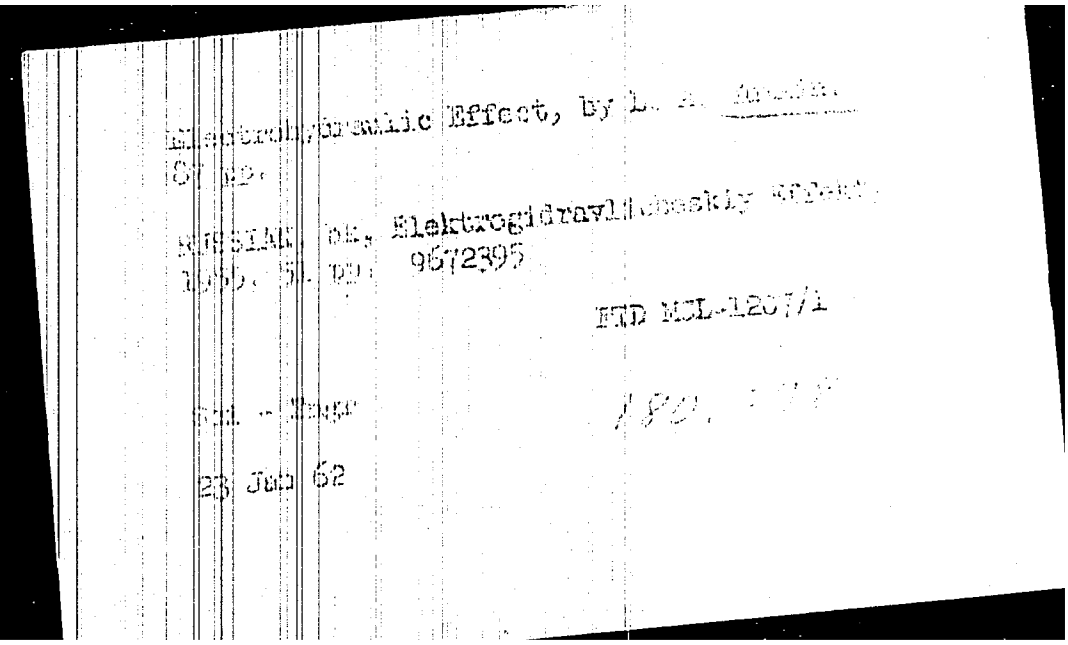

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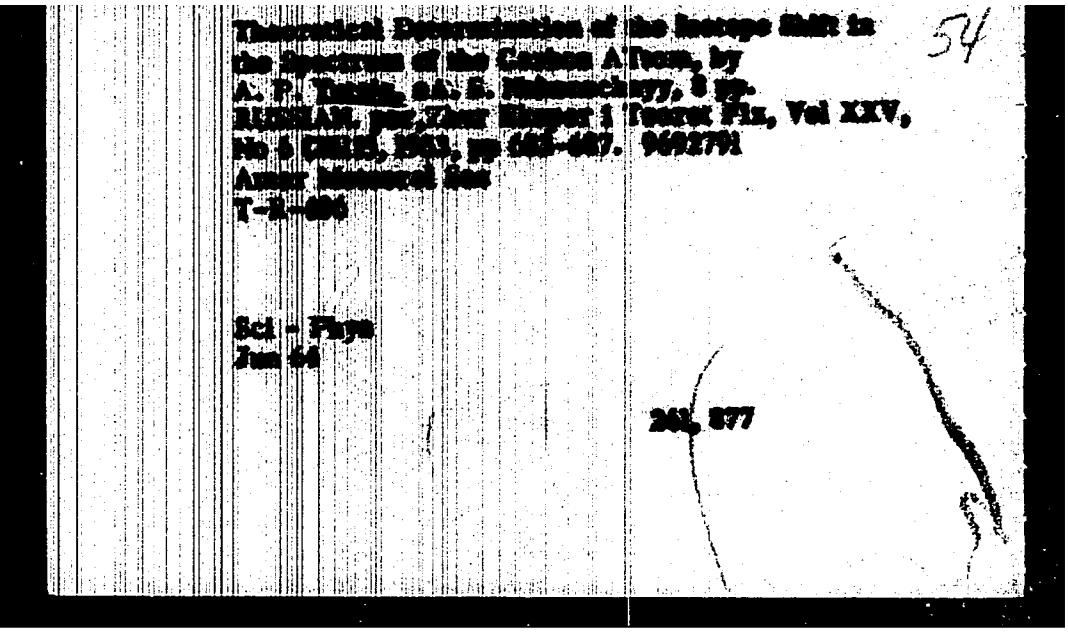

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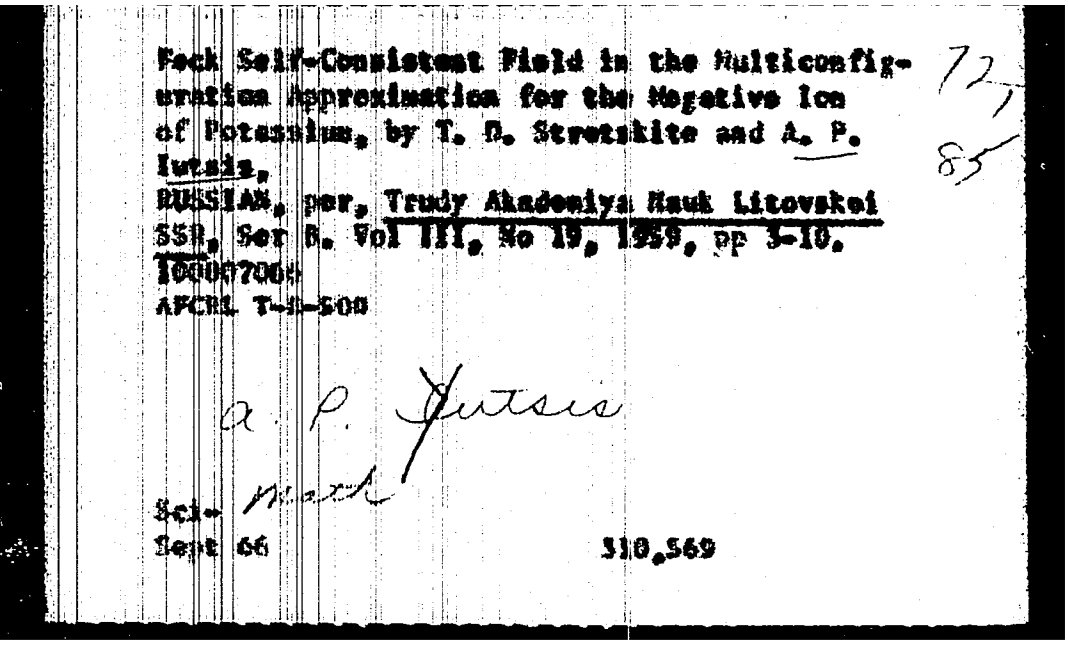

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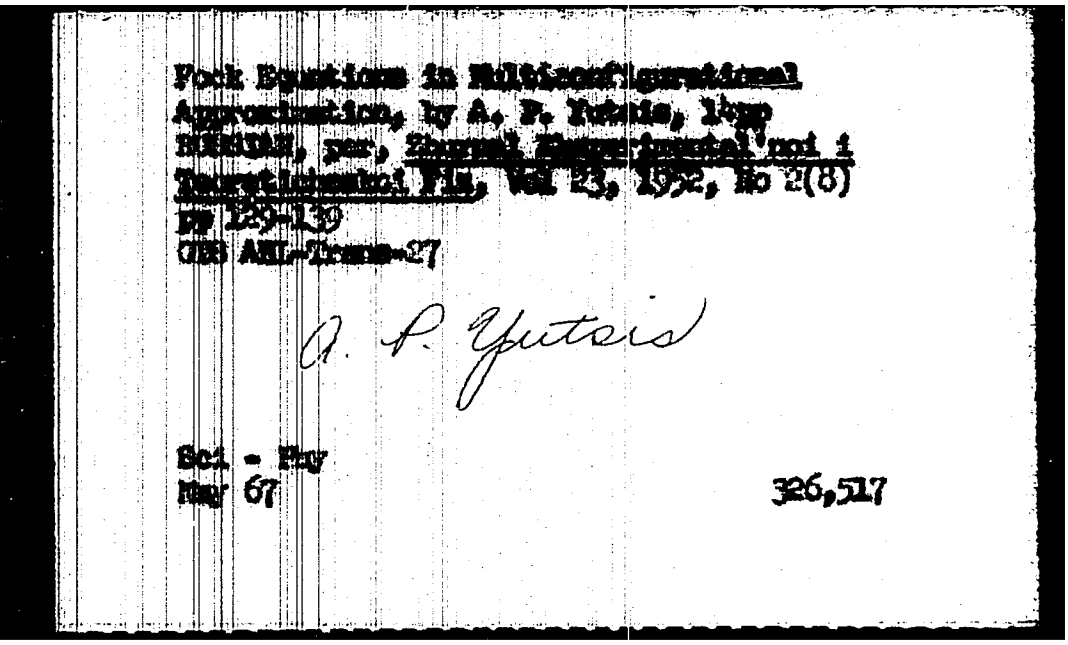

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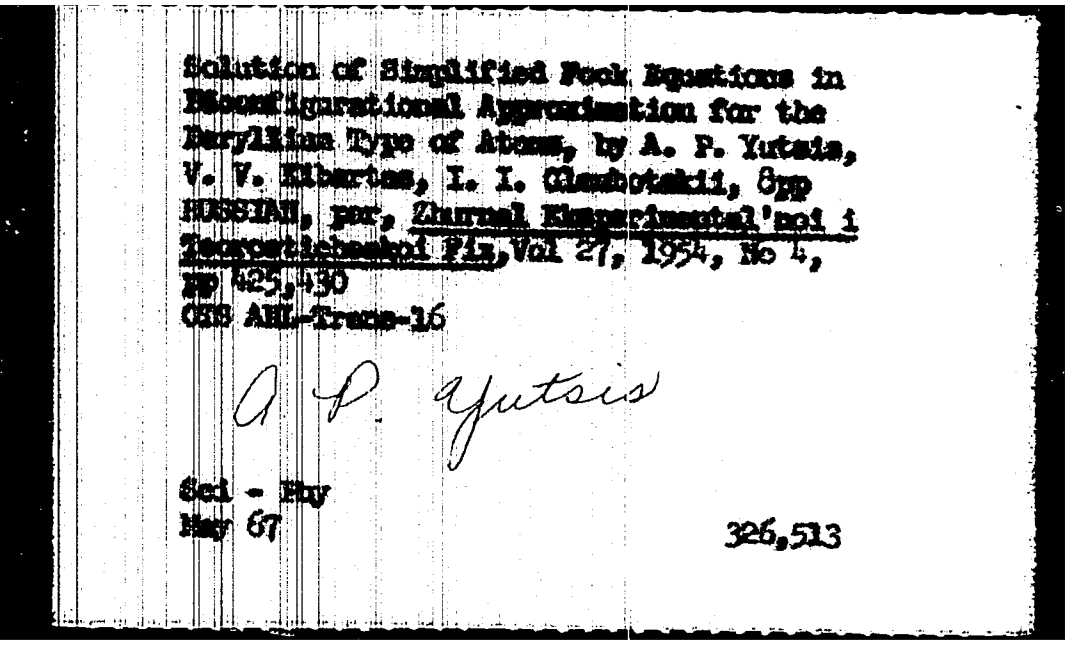

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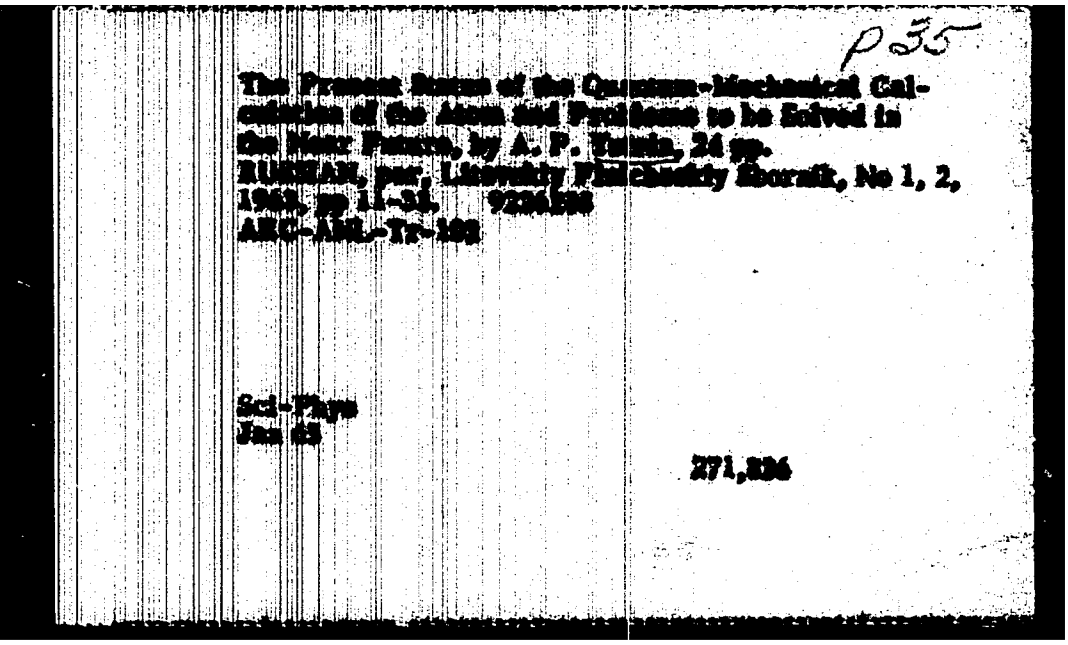

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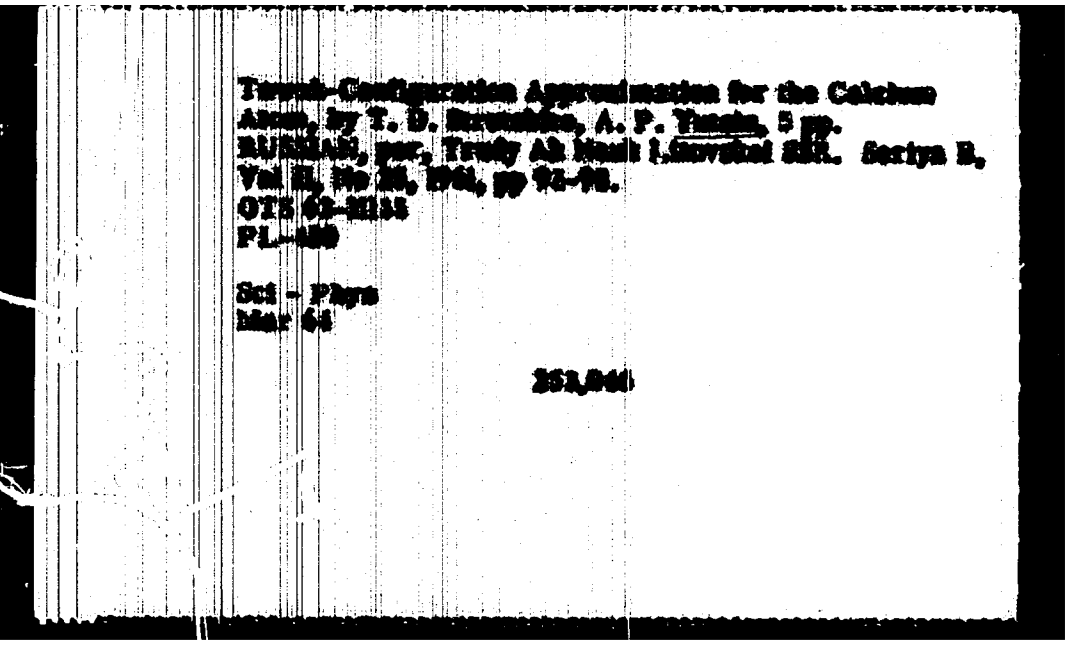

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